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APP APC
M RT PCR RT PCR

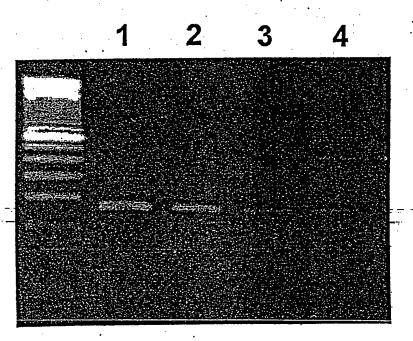
600bp-

BLOOD HFH HAH
RT PCR RT RT M

-600bp

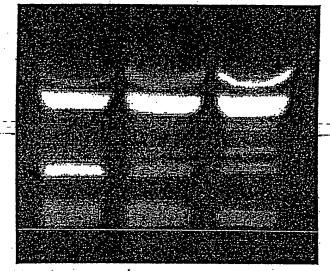








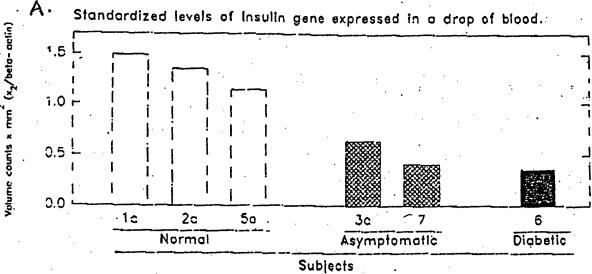
1 2 3

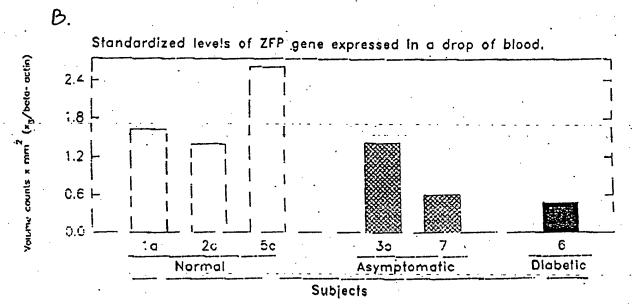


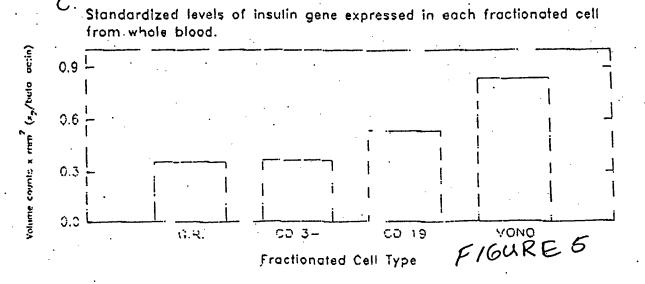
ZFP GADH

INS











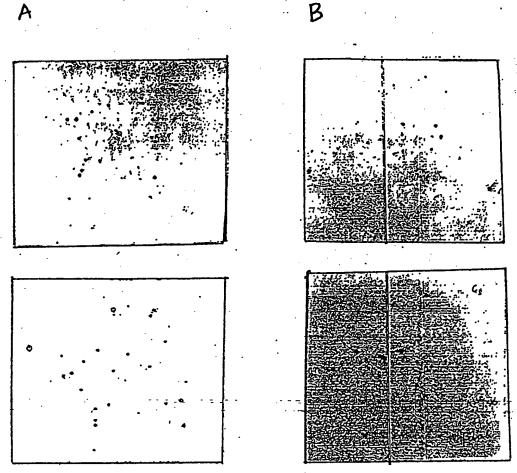


FIGURE 6



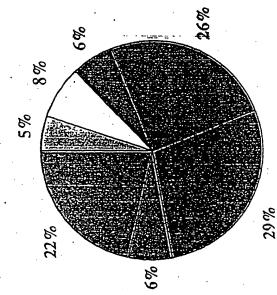
Total:13, 283 ESTs Known: 6,283 Mitochondrial: 405

Cell Division

Ribosome: 498 Repeat: 868

Mis.: 156 Novel: 2,718

Human Blood



☐ Cell Signalling/Communication

■ Cell structure/Motility

Cellorganism defense

國 Gene/Protein expression

Metabolism

國 Unclassified

Human Fetal Heart

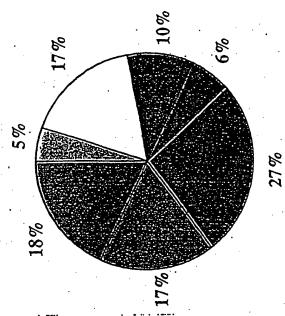
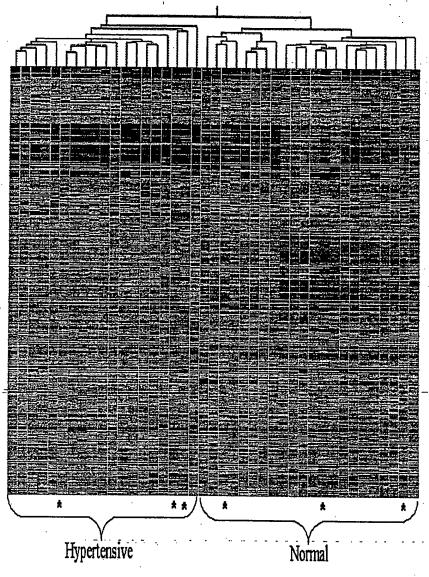




Figure 8
Hypertension

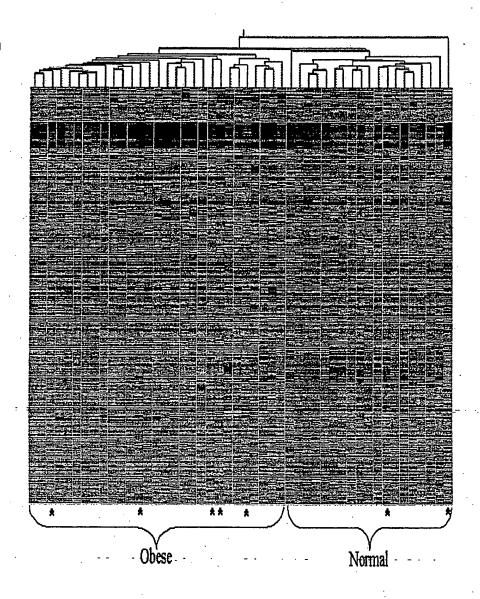


Hypertensive: 19

Normal: 22



Figure 9
Obesity

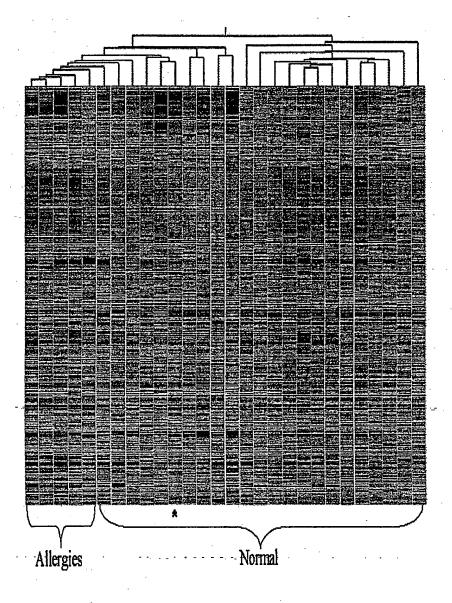


Obese: 25

Normal: 22



Figure 10 Allergies

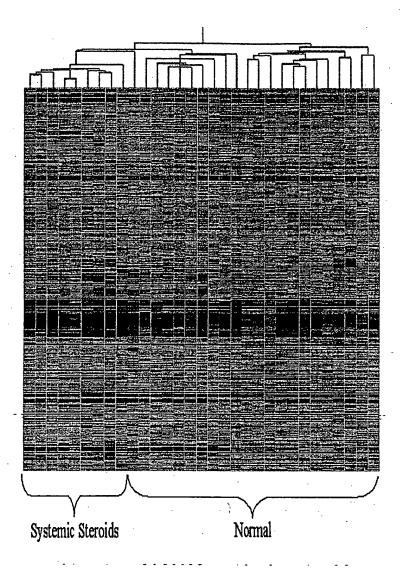


Allergies: 6

Normal: 22



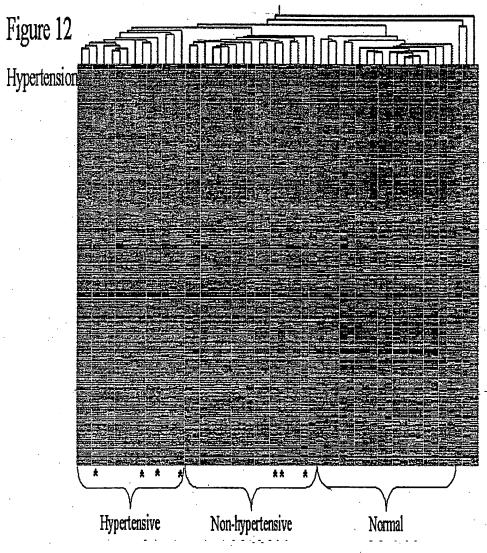
Figure 11
Systemic
Steroids



Systemic Steroids: 9

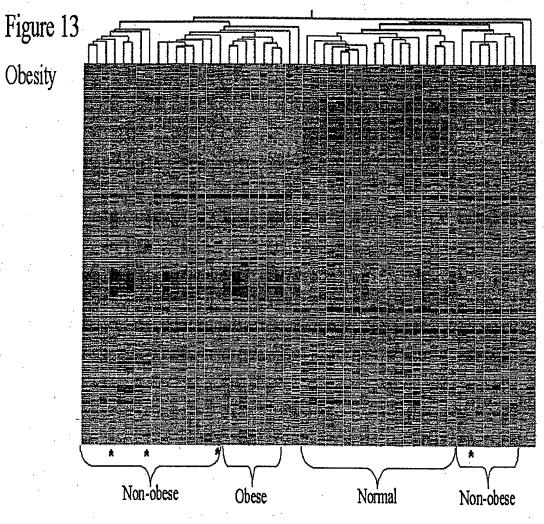
Normal: 22





Hypertensive: 10
Non-hypertensive: 18
Normal: 24
Differentially Expressed Genes (p<0.05): 1,993





Obese: 8

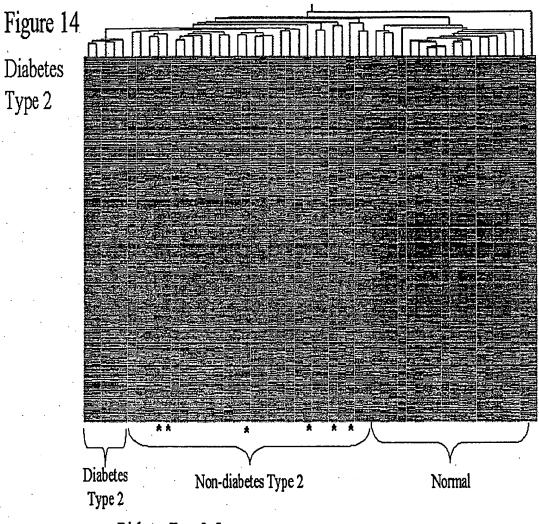
Non-obese: 20

Normal: 24



Diabetes

Type 2

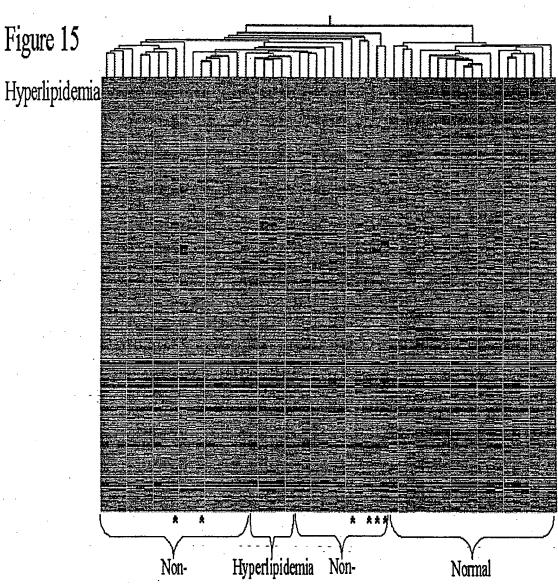


Diabetes Type 2: 5

Non-diabetes Type 2: 23

Normal: 24





hyperlipidemia

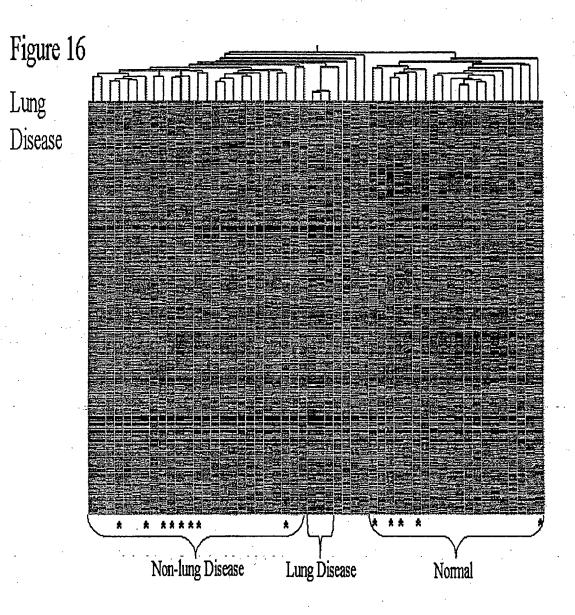
Hyperlipidemia: 7

hyperlipidemia

Non-hyperlipidemia: 21

Normal: 24





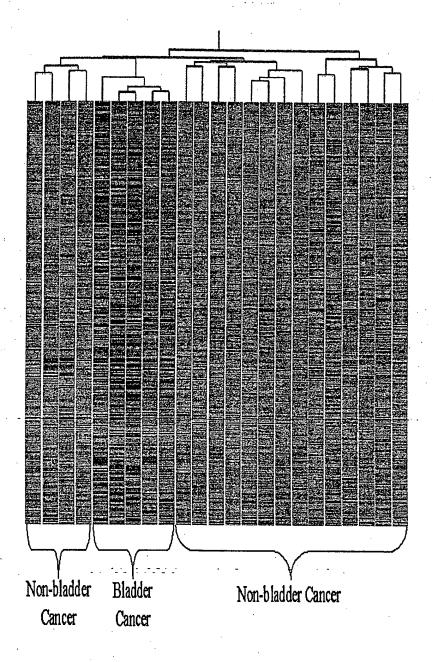
Lung Disease: 3

Non-lung Disease: 25

Normal: 24



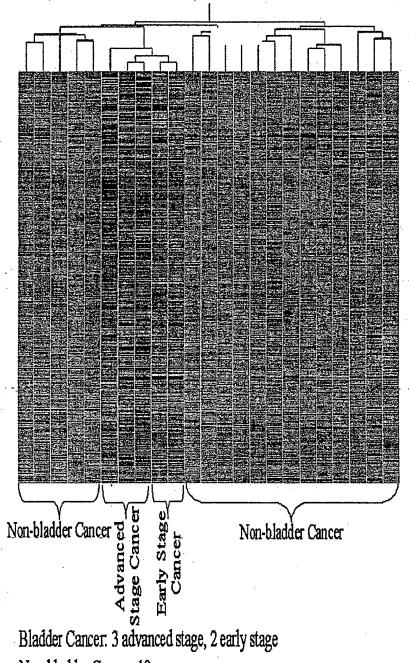
Figure 17
Bladder
Cancer



Bladder Cancer: 5 Non-bladder Cancer: 18 Differentially Expressed Genes (p<0.05): 4,228

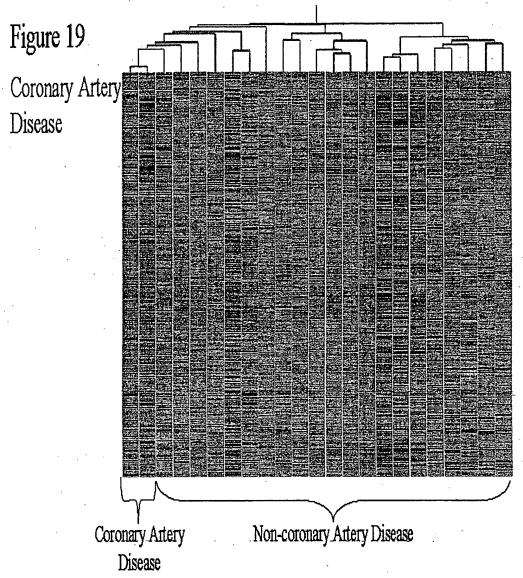


Bladder Cancer



Non-bladder Cancer: 18



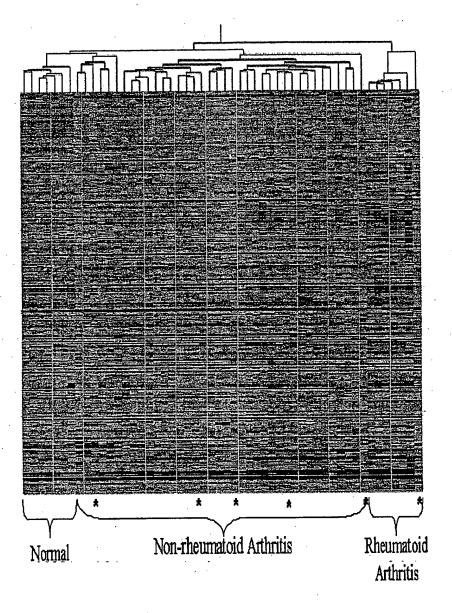


Coronary Artery Disease: 2

Non-coronary Artery Disease: 21



Figure 20
Rheumatoid
Arthritis



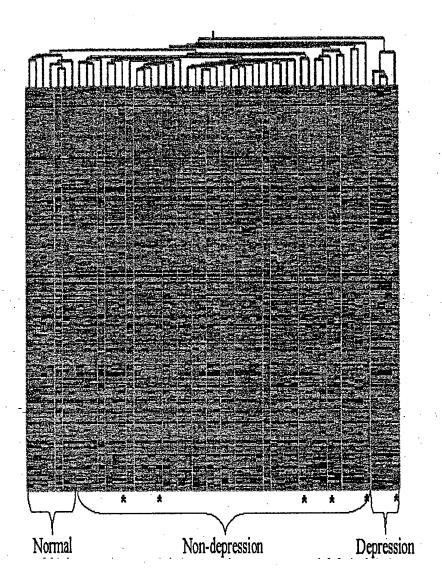
Rheumatoid Arthritis: 6

Non-rheumatoid Arthritis: 34

Normal: 12



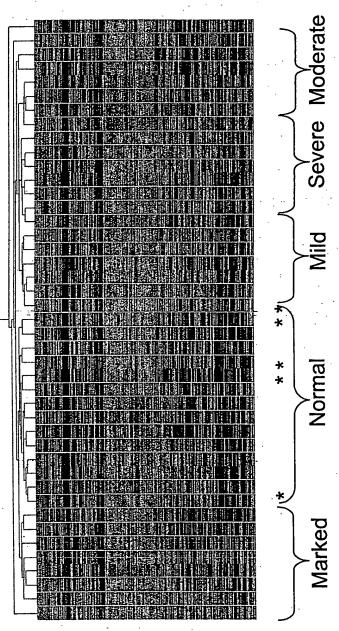
Figure 21
Depression



Depression: 3 Non-depression: 37 Normal: 12 Differentially Expressed Genes (p<0.05): 941



Osteoarthritis Figure 22



Osteoarthritis: 9 mild, 8 moderate, 8 marked, 9 severe Normal: 9

RT-PCR of overexpressed genes in CAD peripheral blood cells identified using microarray experiments, Figure 23

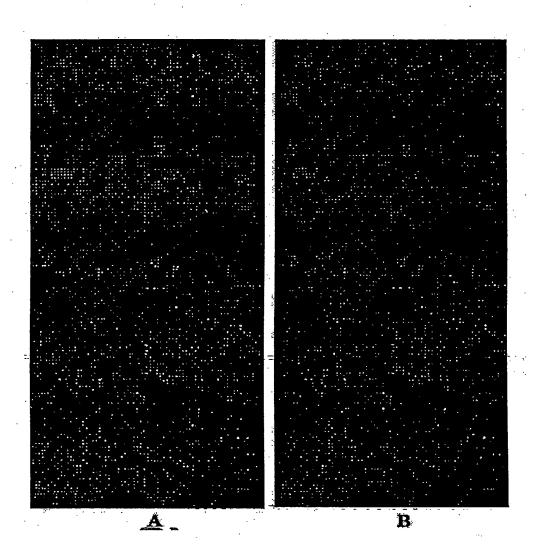
including PBP, PF4 and F13A.

Marker Contr. 1 Contr. 2 Confr. 3 CADI CADI CADI CADI

A THE REAL PROPERTY. Platelet Factor 4 kettvafing Peptide III



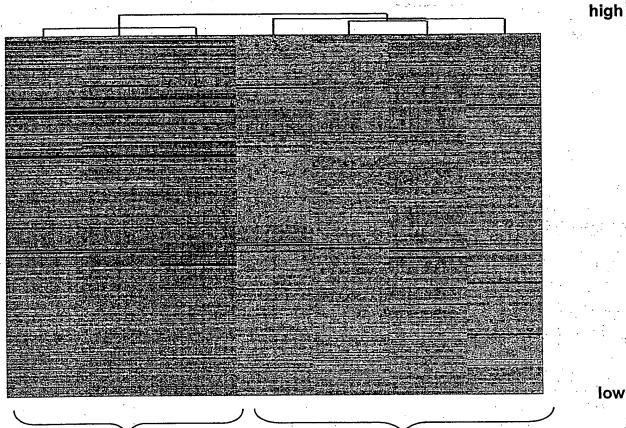
Figure 24



APR 0 1 2004

Figure 25

Liver Cancer



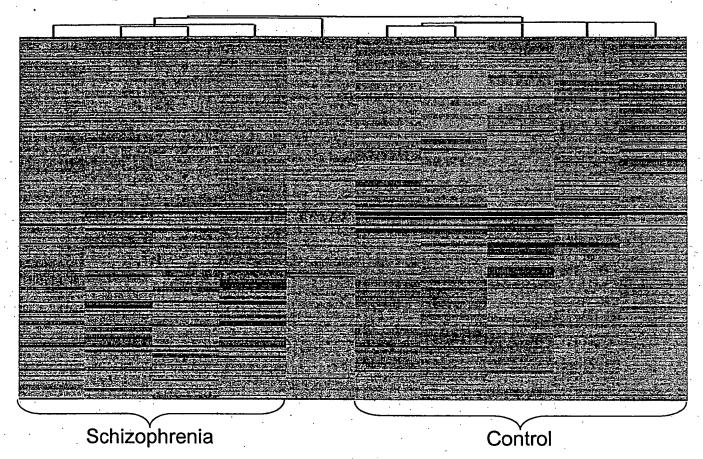
Control

Liver Cancer

Control (red): n=3; Liver Cancer (orange): n=4

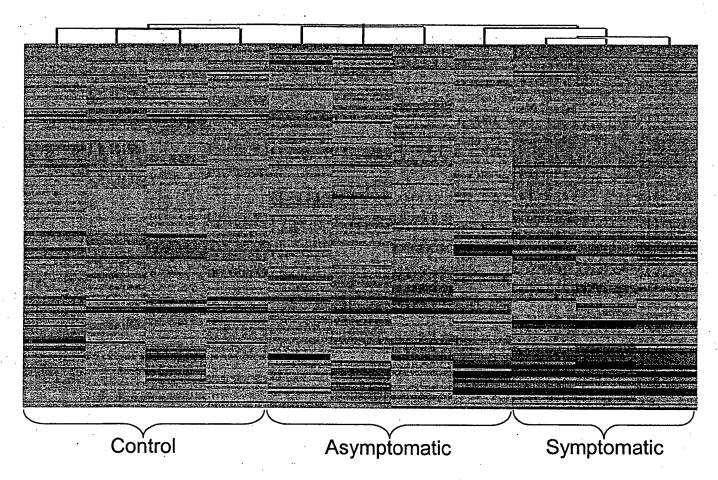
relative expression level APR 0 7 2004 E. Figure 26

Schizophrenia



Control (red): n=6; Schizophrenia (orange): n=4

p<0.005 252 genes

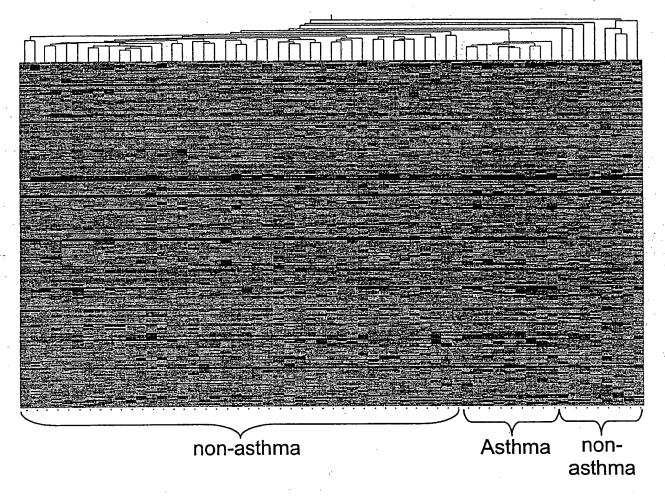


Control (orange): n=4; Chagas' asympt. (red): n=4; Chagas' sympt. (yellow): n=3

p<0.01 155 genes MR 01 2004 82 2

Figure 28

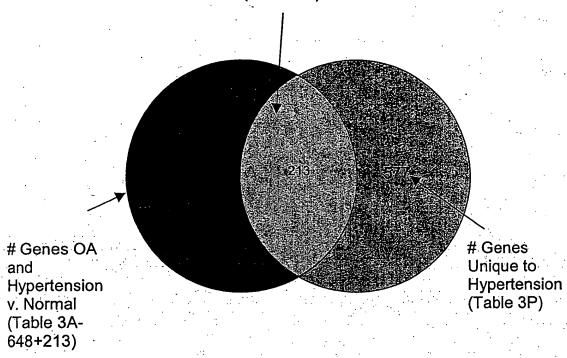
Asthma



Asthma: n=9 Non-asthma: n=50

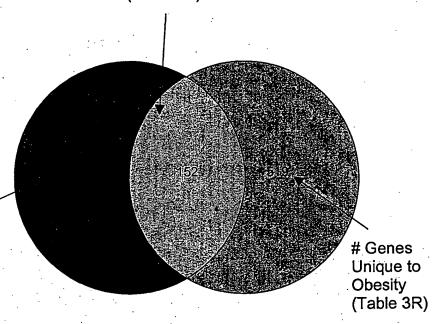
p<0.05 219 genes

Intersecting Genes (Table 3Q)

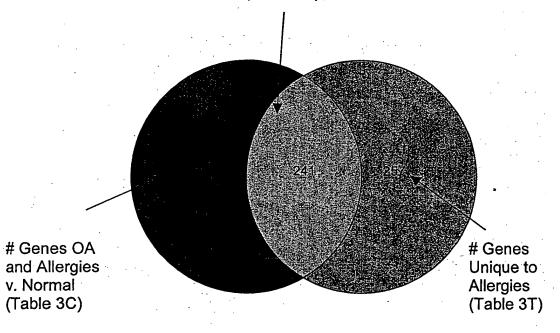




Genes OA and Obesity v. Normal (Table 3B) Intersecting Genes (Table 3S)

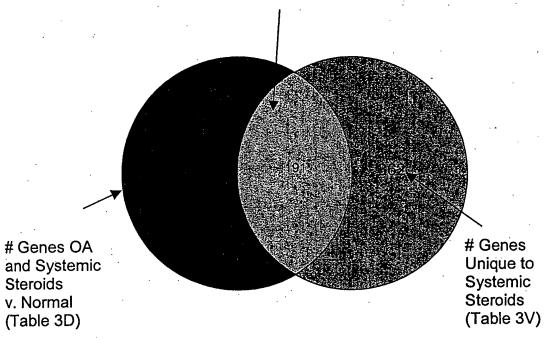


Intersecting Genes (Table 3U)



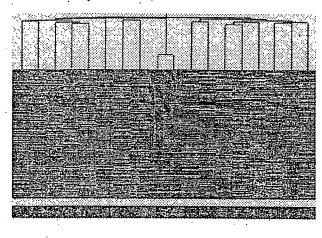


Intersecting Genes (Table 3W)





Schizophrenia, Batch 2 vs. MDS



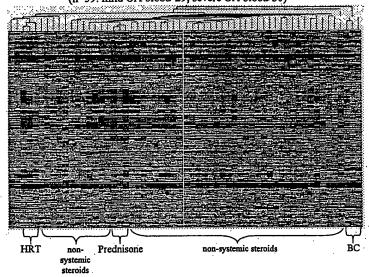
Schizophrenia (yellow): n=16; MDS (blue): n=2

p<0.05 294 genes

MDS = Manic Depression Syndrome



OA Blood Samples Co-morbidities Study: Systemic Steroid Groups (n=59: mild OA blood-29, severe OA blood-30)



Systemic Steroids (n=9): 3 prednisone, 3 birth control, 3 hormone replacement therapy Non-systemic steroids: 50 Differentially Expressed Genes (p<0.05): 396

HRT = hormone replacement therapy; BC = birth control